



COLORADO STATE UNIVERSITY

PRE-ENGINEERING TRANSFER AGREEMENT FOR COMMUNITY COLLEGE STUDENTS

This agreement is designed for Colorado community college students planning to transfer to Colorado State University for a BS degree from the College of Engineering. This agreement identifies community college courses that will apply to the baccalaureate degree.

If you plan to complete an engineering bachelor's degree, recognize that:

1. You should transfer into the bachelor's program after you take the courses outlined below. Transfer hours beyond the credits below are not guaranteed to apply toward the engineering degree.
2. It is imperative that you contact an engineering advisor at the 4-year institution by the end of the first semester to clarify course work appropriate for your intended engineering major and to identify the community college courses and GPA necessary to meet the competitive admission requirements.
3. If your Colorado community college has an agreement with the 4-year institution, follow that agreement rather than this one.

Mathematics Skills: For community college students with strong math skills who are ready for Calculus I, transfer to the 4-year institution is recommended after completion of the courses below. Students who are not ready for Calculus I should consider working toward the associate degree while working with both 2-yr and 4-yr advisors on the selection of courses appropriate for transfer into an engineering program. Completion of the [gtPathways general education curriculum](#) will enhance transferability should the student switch from an engineering track to a liberal arts track.

Transfer Recommendations: A bachelor's degree in engineering is a demanding and prescribed curriculum that may take 6-8 semesters of coursework independent of the credit hours transferred from the community college. To graduate in a 4-5 year overall time frame, it is important that engineering students begin taking engineering courses no later than the sophomore year. Community college students within commuting distance of the 4-year institution should inquire about the possibility of concurrent registration prior to transfer.

Students who wish to continue their education at the community college beyond the number of credits in the pre-engineering program below should explore with both 2-yr and 4-yr advisors how their graduation timeline, COF stipend, and financial aid will be affected.

Guarantees and Limitations: Students who successfully complete (minimum C grade) the prescribed pre-engineering curriculum:

- are eligible to apply for admission directly into an engineering program at the 4-year institution
- are responsible for meeting all admission requirements at the 4-year institution
- are not guaranteed admission to the engineering program at the 4-year institution
- are guaranteed, once admitted, application of the transfer hours below to either lower division general education, course work required for the engineering major, or elective credit
- must consult with the 4-year institution's engineering program to utilize AP, IB, or CLEP credits
- must consult with the 4-year institution's engineering program for transferability of course work credits beyond those prescribed below as additional courses are major specific and the 4-year institution may restrict the number of community college transfer credits.

Contact Information:

970-491-6220

sara.manning@colostate.edu

<http://www.engr.colostate.edu/students/future-students/undergraduate/transfer-1.html#requirements>

Colorado State University Pre-Engineering Transfer Agreement

November 19, 2014

Page 1 of 2



Please note that this curriculum neither fulfills the gtPathways general education curriculum nor the associate degree requirements at the community college.

Required Courses Applicable to Engineering Majors (30-31 credits)			
General Education Knowledge Area	Credit Hours	Community College (CCCS) Course No.	Course Title and gtPathways Category
Art & Humanities, History <u>or</u> Social & Behavioral Science	3		Any GT-HI1 , GT-AH1 , GT-AH2 , GT-AH3 <u>or</u> GT-SS1 , GT-SS2 , or GT-SS3
Written Communication	3	ENG 121	English Composition I (GT-CO1)
Natural & Physical Sciences	5	PHY 211	Physics: Calculus-based I (GT-SC1)
	5	PHY 212	Physics: Calculus-based II (GT-SC1)
Mathematics	5	MAT 201	Calculus I (GT-MA1)
	5	MAT 202	Calculus II (GT-MA1)
	4 <u>or</u>	MAT 203 <u>or</u>	Calculus III (GT-MA1) <u>or</u>
	5	MAT 204	Calculus III with Engineering Applications (GT-MA1)
*Students are strongly encouraged to complete course sequences (such as, PHY 211 & 212 and MAT 201, 202 & 203) at the same institution before transferring. .			

Elective Courses (0-30 credits)			
Elective courses must be selected in consultation with the engineering advising office at the 4-year institution to verify they will transfer and apply to the student's chosen major requirements.			
Advanced Mathematics	3	MAT 255	Linear Algebra
	4	MAT 261	Differential Equations with Engineering Applications (GT-MA1)
	4	MAT 265	Differential Equations (GT-MA1)
	4	MAT 266	Differential Equations with Linear Algebra
Science	5	BIO 111	General College Biology I with Lab (GT-SC1)
	5	CHE 111	General College Chemistry I with Lab (GT-SC1)
	5	CHE 112	General College Chemistry II with Lab (GT-SC1)
Computer Science	4	CSC 160	Computer Science I (Language)
	4	CSC 161	Computer Science II (Language)
	3	CSC 233	Object-Oriented Programming (Language)
	4	CSC 234	C++ Programming
	3	CSC 240	Java Programming
Computer Aided Drafting	3	CAD 101	Computer Aided Drafting I
	3	CAD 102	Computer Aided Drafting II
	3	CAD 201	CAD/Custom
	3	CAD 202	Computer Aided Drafting/3D
Advanced writing	3		Choose from the Category 2 Advanced Writing list at http://www.catalog.colostate.edu/Content/files/2014/FrontPDF/2.3AUCC.pdf

Transfer Disputes

If disagreement regarding the transferability of credits for coursework or a degree occurs between a student and a receiving two-year or four-year institution, the Department will facilitate an expeditious review and resolution of the matter pursuant to Commission Policy, Section I, Part T: Student Complaint Policy. For more information, contact the Department at 303-866-2723 or file a complaint at <http://higherred.colorado.gov/Academics/Complaints/default.html>